

EFFECT OF WAXES - DEXTRINE EXTRACT OF
LABISIA PUMILA VAR *ALATA*
ON MODIFIED WHITE PAST

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non-pregnant white rats / Zaireen Mohd Yusoff.

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EFFECTS OF WATER DECOCTION EXTRACT OF *LABISIA PUMILA* VAR. *ALATA*
IN NON-PREGNANT WHITE RATS

By

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Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

EFFECTS OF WATER DECOCTION EXTRACT OF *Labisia pumila var alata* IN
NON-PREGNANT WHITE RATS.

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LIST OF ABBREVIATIONS

μ	Micron
$^{\circ}\text{C}$	degree Celcius
g	Gram
mg/kg	Miligram per kilogram
ml	Mililiter
cm	Centimeter
%	Percentage
μm	Micrometer

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ABSTRACT

This study was conducted to determine the histopathological changes in liver and kidney of water decoction extract of *Labisia pumila* and its effects to uterus. To achieve the objectives, 36 white rats were used which consists of 9 rats in each group. There were two treated groups (C and D) and two control groups (A and B) which are positive and negative control. Group C and D were given 1000 mg/kg and 500 mg/kg Kacip Fatimah extract diluted inside 2 ml distilled water where as Group A was given 1 ml distilled water while it was non-treated for Group B. The treatment was done in oral using a garvage that was injected through mouth and going straight to stomach. The rats were slaughtered on day 7, 14 and 21. Kidney, liver and uterus were collected from each rats in group A, B, C and D on day 7, 14 and 21. Samples were processed using histology techniques. Statistical analysis of descriptive analysis and Two Way Anova without Replication were used to determine any significant differences between Group A, B, C and D and between days. The results showed that the area of endometrium, the perimeter of endometrium glands, the thickness of endometrium and the number of endometrium glands were insignificant ($p>0.05$) between groups and days. Therefore, there was no changes in all parameters overall even the rats were given the different doses of Kacip Fatimah crude. For kidney and liver, there were no lesions in Group A and Group B. There were abnormalities occurred in Group C and Group D which can be listed as hyaline, thrombosis, haemosiderin and necrosis.

KESAN EKSTRAK AIR REBUSAN *Labisia pumila* var. *alata* KE ATAS TIKUS PUTIH

ABSTRAK

Kajian ini dijalankan untuk menentukan kesan ekstrak air rebusan *Labisia pumila* ke atas perubahan histopatologi hati dan ginjal serta kesannya terhadap uterus. Bagi mencapai objektif, sejumlah 36 ekor tikus putih digunakan di mana setiap kumpulan diwakili oleh sembilan ekor tikus. Terdapat dua kumpulan rawatan (C dan D) dan dua kumpulan kontrol (A dan B) iaitu kumpulan kontrol negatif dan kumpulan kontrol positif. Kumpulan C dan D diberi 1000mg/kg dan 500mg/kg ekstrak Kacip Fatimah yang dilarutkan dalam 2ml air suling manakala Kumpulan A diberi 1ml air suling dan tiada rawatan diberi untuk Kumpulan B. Rawatan dijalankan dengan menggunakan garvaj yang dimasukkan menerusi mulut dan dihalakan terus ke perut. Tikus-tikus disembelih pada hari ke 7, 14 dan 21. Ginjal, hati dan uterus diambil daripada tikus-tikus dalam Kumpulan A,B,C dan D pada hari ke 7, 14 dan 21. Semua sampel diproses dengan menggunakan teknik histologi. Analisa statistik iaitu Analisa Deskriptif dan Anova Dua Hala tanpa Replikasi digunakan untuk menentukan sama ada terdapat perubahan antara Kumpulan A, B, C dan D dan antara hari. Keputusan menunjukkan bahawa luas endometrium, perimeter kelenjar endometrium, ketebalan endometrium dan bilangan kelenjar endometrium adalah tidak nyata ($p>0.05$) di antara kumpulan dan hari. Oleh itu, tiada perubahan pada semua parameter walaupun tikus diberi ekstrak Kacip Fatimah pada dos yang berlainan. Tiada perubahan ditunjukkan oleh buah pinggang dan hati pada

Kumpulan A dan B. Terdapat ketidaknormalan oleh ginjal dan hati yaitu hialin,trombosis,haemosiderin dan nekrosis pada Kumpulan C dan D.